About us

Our Systems are designed Under the Vision of Mr. Aniruddha Avasthi a Mechanical Engineerand Mcom Economics Graduate from the prestigious college of Bits Pilani. He has a background of work experience of more than 25 Years in mechanical field of technology and innovation Regardless of his profession, Mr. Annirudha ventures forward with his openness and transparency in dealings, approach to stakeholders, and commitment towards time management and never-say-never attitude, this pushes the company further in the trajectory of growth.

Mrs Alka Avasthi isan Engineering science graduate from COEP Pune And a doctorate in Civil Engineering. Having 20 years of experience in construction sectors she is one of the Directors of the Company and plays an important role in the critical areas of strategy and planning. Being an able hand in diverse verticals, her contribution to the company is considered as invaluable. She is also among the core team that leads the group into newer realms of operations.

Our Mission

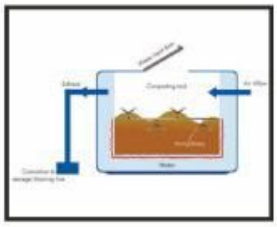
- To excel in delivery of work.
- To adhere to the highest standards of professional ethics.
- To be a collective group focused on new technologies, new trends, and implement them first..
- To maintain transparency with our Investors, Associates, Clients, Service Providers, Employees and contribute to the society at large.

Integrity which is the core value of each and every employee of the company. We believe in doing the right thing and do not compromise on ethics under any circumstances. We complete all our projects with utmost honesty and dedication.

Responsiveness

We ensure swiftness in analysing new developments and in identifying opportunities. We work diligently to provide our customers with timely and appropriate solutions through an efficient decision making mechanism supported by our flat organization structure.

Aqualis Waste Composter



Composting is a process of controlled decomposition of the organic waste, typically in aerobic conditions, resulting in the production of stable humus like product, which is compost. Considering the typical composition of wastes and the climate conditions, composting is highly relevant in India. The decomposition process takes place in the presence of air and results in elevated process temperatures. Carbon dioxide is release along with water. After the process a stabilised residue is left, which is compost. For composting to occur in an optimum manner, five key factors need to be controlled; temperature, moisture, oxygen, material porosity and the Carbon: Nitrogen ratio. Compost, the final product, because of its high organic content makes a valuable soil conditioner and is used to provide nutrients for plants. When mixed with soil, compost promotes proper balance between air and water in the resulting mixture, which further helps reduce soil erosion and serves as a slow-release fertilizer.

Organic compost can be classified as an organic fertilizer composed of primary nutrients, traces of minerals, humus and humic acids. Organic compost improves soil porosity, drainage and aeration, moisture holding capacity and reduces compaction. Organic compost can retain up to ten times its weight in water. Pre-compost can alternatively be used as pre-curser for vermicompost. After 8 - 10 days in the curing system, the waste gets converted into Organic compost. With this Organic compost as raw material, vermicompost can be produced in less than 4 weeks.
The properties of such Organic compost are mentioned below & surpass international norms.

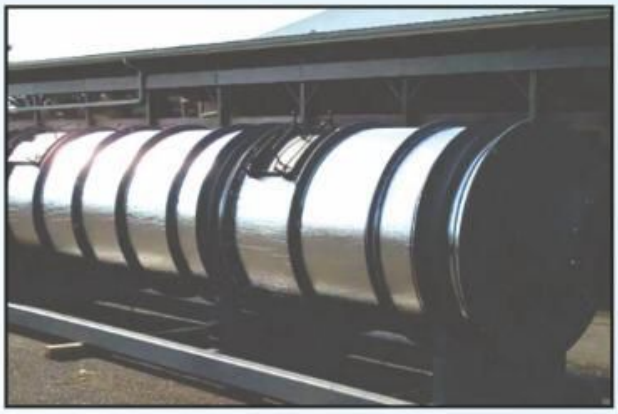
Total Organic Carbon	: 44.7232%
Total Kjeldahl Nitrogen	: 2.3369%
C : N ratio	: 19.1: 1
N: P: K	: 2.33:3.28: 1.57
pH	: 6.5 - 7.5

Organic compost helps buffer soil against extreme chemical imbalances, aids in unlocking soil minerals, releases nutrients over a wide time window, acts as a buffer against the absorption of chemicals and heavy metals, promotes the development of healthy root zones, suppresses diseases associated with certain fungi, and helps plants tolerate drought conditions.

Organic compost is used as fertiliser in farmland. nursery, floriculture and horticulture.

Automatic Continuous Drum Composter (AWC)

AQUALIS Automatic Continuous Drum Composter is a unique Composting Machine which converts any kind of organic waste into compost within 10 Days with natural process.



Special Features of the Automatic Continuous Drum Composter:

- Fully Automatic Composter
- Waste to Compost in 10 Days
- Compact Design & Maintenance Free
- Converts any kind of Organic Waste into Compost
- Odourless & Noiseless
- Volume Reduction Up to 65 – 70 %
- Additions of Saw Dust & Culture (Micro-organism) with every waste input.
- Quality Material Used – for Drum & Crusher
- Overload Function works in case of Overload
- Works on 3R Principle (Reduce, Recycle &Reuse)
- Garbage to Garden & Improve Soil Health
- Reduces Global Warming and Air Pollution
- Saves Money & Saves Landfill Space

Sr No	Model	Capacity Kg / Day
1	AEC 25	25 Kg / Day
2	AEC 50	50 Kg / Day
3	AEC 100	100 Kg / Day
4	AEC 175	175 Kg / Day
5	AEC 250	250 Kg / Day
6	AEC 350	350 Kg / Day
7	AEC 425	425 Kg / Day
8	AEC 500	500 Kg / Day
9	AEC 600	600 Kg / Day
10	AEC 700	700 Kg / Day
11	AEC 800	800 Kg / Day
12	AEC 900	900 Kg / Day
13	AEC 1000	1000 Kg / Day
14	AEC 1250	1250 Kg / Day
15	AEC 1500	1500 Kg / Day
16	AEC 1750	1750 Kg /Day
17	AEC 2000	2000 Kg / Day
18	AEC 2500	2500 Kg/ Day

Process : It is simple & practical because the most unpleasant fraction of the waste stream - the food waste, is being dealt with hygienically on a daily basis. You empty your food waste into the Composter every day through the hopper. Add absorbent (Saw dust) and microbial composting agent along with waste. The chopper at the inlet chops thematerial to increase the surface area & make the waste homogenous. This homogenous mixture is then passed on to the drum.

The drum has an agitator inside and rotates at a very slow speed. Therotary action of the revolving drum and the inbuilt baffles cause the waste to get well mixed and aerated.

Average process time inside the machine is 7 - 10 days. The aeration and turning is done automatically which means that the natural decomposition process works perfectly from start to finish. The finished compost automatically overflows outside the drum and is collected in bins. The composting process takes place in an in-vessel composting unit so there are no unpleasant odours on-site. Automatic drum composter with its inbuilt crusher makes excellent compost from domestic/industrial food waste.